-2-

Please amend the application as follows:

In the Specification

Please replace the paragraph at page 6, lines 16 through 18 with the following paragraph:

B1

In FIG. 4B a source element dA is shown a distance away from the center of the source object 400 below the optical axis 404.   Light rays from the source element dA travel off-axis along an off-axis path 408 at a field angle from the optical axis 404.

Amendments to the specification are indicated in the attached "Marked Up Version of Amendments" (pages i-ii).

In the Claims

Please cancel Claims 3, 8, 13 and 24.

Please amend Claims 1, 2, 6, 7, 11, 12, 16, 17, 21 and 22. Amendments to the claims are indicated in the attached "Marked Up Version of Amendments" (pages i - ii).

B2

1.   (Amended) A method for calibrating a camera comprising the steps of:

        digitizing an image of a blank textureless surface having a uniform illumination; and

        computing intrinsic parameters of the camera based on pixel intensity drop off effects in the digitized image caused by a vignetting effect.

2.   (Amended) A method as claimed in Claim 1 wherein the pixel intensity drop off effect is also caused by an off-axis pixel projection effect.